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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Group: 1624

Confirmation No.: 1332

Application No.: 10/784,696

Invention: METHOD AND ASSOCIATED
COMPOUNDS FOR FORMING
NANOTUBES

Applicant: Hicham Fenniri

Filed: February 23, 2004

Attorney
Docket: 3220-74628

Examiner: Unknown

Certificate Under 37 CFR 1.8(a)

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on 7/14/04

Keisha L. Mays
(Signature)

Karla T. Mays
(Printed Name)

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
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Alexandria, VA 22313-1450

Sir:

This statement is filed in the application identified above pursuant to 37 C.F.R. § 1.56. No representation is intended that a complete search has been made of the prior art or that no better art references than listed below are available. A copy of each reference is provided for review by the Examiner. The filing of this Statement shall not be construed to be an admission that the information cited in the Statement is, or is considered to be, material to patentability as defined in §1.56(b).

Please charge any fees that might be due in connection with this Information Disclosure Statement to our Deposit Account No. 10-0435. An extra copy of this Information Disclosure Statement is enclosed for that purpose.

Respectfully submitted,

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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 3220-72893	SERIAL NO. 10/630,574
INFORMATION DISCLOSURE STATEMENT		APPLICANT Hicham Fenniri	
		FILING DATE July 30, 2003	GROUP 1624

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	AR	Thomas C. Marsh et al., "A new DNA nanostructure, the G-wire, imaged by scanning probe microscopy", <i>Oxford Journals Online, Nucleic Acids Research</i> , Vol. 23, Issue 4, pg. 696 (Copyright © 1995 by Oxford University Press)
	AS	George M. Whitesides et al., "Noncovalent Synthesis: Using Physical-Organic Chemistry To Make Aggregates", <i>Acc. Chem. Res.</i> , Vol. 28, No. 1, 1995, pgs. 37-44
	AT	Sergei V. Kolotuchin et al., "Self-Assembly Mediated by the Donor-Donor-Acceptor-Acceptor-Acceptor-Donor (DDA•AAD) Hydrogen-Bonding Motif: Formation of a Robust Hexameric Aggregate", <i>J. Am. Chem. Soc.</i> , Vol. 120, No. 35, 1998, pgs. 9092-9093
	AU	Rosa E. Meléndez et al., "Hydrogen-Bonded Ribbons, Tapes and Sheets as Motifs for Crystal Engineering", <i>Top. Curr. Chem.</i> , Vol. 198, 1998, pgs. 97-129
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	AX	Harm-Anton Klock, et al., "Self-Assembly of Rodlike Hydrogen-Bonded Nanostructures", <i>J. Am. Chem. Soc.</i> , Vol. 121, No. 30, 1999, pgs. 7154-7155
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BR	David A. Frankel et al., "Supramolecular Assemblies of Diacetylenic Aldonamides", <i>J. Am. Chem. Soc.</i> , Vol. 116, No. 22, 1994, pgs. 10057-10069
BS	Jürgen-Hinrich Fuhrhop et al., "Molecular Monolayer Rods and Tubules Made of α -(L-Lysine), ω -(Amino) Bolaamphiphiles", <i>J. Am. Chem. Soc.</i> , Vol. 115, No. 4, 1993, pgs. 1600-1601
BT	Joel M. Schnur, "Lipid Tubules: A Paradigm for Molecularly Engineered Structures", <i>Science</i> , Vol. 262, 1993, pgs. 1669-1676
BU	Naotoshi Nakashima et al., "Optical Microscopic Study of Helical Superstructures of Chiral Bilayer Membranes", <i>J. Am. Chem. Soc.</i> , Vol. 107, 1985, pgs. 509-510
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BW	Nasreen G. Chopra et al., "Boron Nitride Nanotubes", <i>Science</i> , Vol. 269, 1995, pgs. 966-967
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BY	Wayne Shenton et al., "Inorganic-Organic Nanotube Composites from Template Mineralization of Tobacco Mosaic Virus", <i>Adv. Mater.</i> , Vol. 11, No. 3, 1999 pgs. 253-256
BZ	Charles J. Brumlik et al., "Template Synthesis of Metal Microtubules", <i>J. Am. Chem. Soc.</i> , Vol. 113, No. 8, 1991, pgs. 3174-3175

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CR	Ewan J. M. Hamilton et al., "Preparation of Amorphous Boron Nitride and Its Conversion to a Turbostratic, Tubular Form", <i>Science</i> , Vol. 260, 1993, pgs. 659-661
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CU	Akira Harada et al., "Synthesis of a tubular polymer from threaded cyclodextrins", <i>Nature</i> , Vol. 364, 1993, pgs. 516-518
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CX	James C. Nelson et al., "Solvophobically Driven Folding of Nonbiological Oligomers", <i>Science</i> , Vol. 277, 1997, pgs. 1793-1796
CY	M. Reza Ghadiri et al., "Self-assembling organic nanotubes based on a cyclic peptide architecture", <i>Nature</i> , Vol. 366, 1993, pgs. 324-327
CZ	Mark Mascal et al., "The G-C DNA Base Hybrid: Synthesis, Self-Organization and Structural Analysis", <i>J. Org. Chem.</i> , Vol. 64, No. 23, 1999, pgs. 8479-8484

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	DR	Andrew Marsh et al., "Self-complementary hydrogen bonding heterocycles designed for the enforced self-assembly into supramolecular macrocycles", <i>Chem. Commun.</i> , 1996, pgs. 1527-1528
	DS	Thierry Verbiest et al., "Strong Enhancement of Nonlinear Optical Properties Through Supramolecular Chirality", <i>Science</i> , Vol. 282, Issue 5390, 1998, 7 pgs.
	DT	Hicham Fenniri et al., "Helical Rosette Nanotubes: Design, Self-Assembly, and Characterization", <i>J. Am. Chem. Soc.</i> , Vol. 123, No. 16, 2001, pgs. 3854-3855
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ER	Christopher T. Seto et al., "Molecular Self-Assembly through Hydrogen Bonding: Aggregation of Five Molecules To Form a Discrete Supramolecular Structure", <i>J. Am. Chem. Soc.</i> , Vol. 115, No. 4, 1993, pgs. 1321-1329
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	HR	Martin Gellert et al., "Helix Formation by Guanylic Acid", <i>Proc. Natl. Acad Sci USA</i> , Vol. 48, No. 12, 1962, pgs. 2013-2018
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	HU	David S. Lawrence et al., "Self-Assembling Supramolecular Complexes", <i>Chem. Rev.</i> , Vol. 95, No. 6, 1995, pgs. 2229-2260
	HV	Yves Ducharme et al., "Use of Hydrogen Bonds To Control Molecular Aggregation. Extensive, Self-Complementary Arrays of Donors and Acceptors", <i>J. Org. Chem.</i> , Vol. 53, No. 24, 1988, pgs. 5787-5789
	HW	Michel Gallant et al., "Use of Hydrogen Bonds to Control Molecular Aggregation. Association of Dipyridones Joined by Flexible Spacers", <i>J. Org. Chem.</i> , Vol. 56, No. 7, 1991, pgs. 2284-2286
	HX	Jonathan A. Zerkowski et al., "Solid-State Structures of "Rosette" and "Crinkled Tape" Motifs Derived from the Cyanuric Acid-Melamine Lattice", <i>J. Am. Chem. Soc.</i> , Vol. 114, No. 13, 1992, pgs. 5473-5475
	HY	Steven C. Zimmerman et al., "Controlled Molecular Aggregation. 1. Cyclic Trimerization via Hydrogen Bonding", <i>J. Org. Chem.</i> , Vol. 57, No. 8, 1992, pgs. 2215-2217
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	IR	Ji Yang et al., "Hydrogen Bonding Control of Self-Assembly: Simple Isophthalic Acid Derivatives Form Cyclic Hexameric Aggregates", <i>Tetrahedron Lett.</i> , Vol. 35, No. 22, 1994, pgs. 3665-3668
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	IT	Jeffery T. Davis et al., "Self-Assembled Inophores from Isoguanosine", <i>J. Org. Chem.</i> , Vol. 60, No. 13, 1995, pgs. 4167-4176
	IU	
	IV	
	IW	
	IX	
	IY	
	IZ	

Examiner	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.
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